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(54) STEREOSCOPIC MICROSCOPE

(57) Abstract:

PURPOSE: To constitute the microscope so that two observers can observe an object at a free angle by the same axis, the same magnification and the same stereoscopic feeling without increasing size, weight and cost by providing a first stereoscopic observing system, and a second stereoscopic observing system, on one optical path divided by an optical path dividing means, and the other optical path, respectively.

CONSTITUTION: Light emitted from an operating part O passes through an objective lens 1 and is subjected to variable power by an afocal zoom lens 2, and thereafter, goes into an optical path dividing part 6. Subsequently, the light which transmits through an optical path dividing member 4 is observed as a stereoscopic image through a pair of image forming lenses 7, a reflecting member 8 and an eyepiece 9 in a first stereoscopic observing system 10. On the other hand, light reflected by the optical path dividing member 4 is deflected by a reflecting member 5, and thereafter, observed as a stereoscopic image through a pair of image forming lenses 7, the reflecting member 8 and the eyepiece 9 in a second stereoscopic observing system 12. In such a way, two observers can observe an object at a free angle

by the same axis, the same magnification and the same stereoscopic feeling without increasing size, weight and cost.

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